



FORM PTO/SB/08A/B (10-01)  
Substitute for PTO-1449A/B

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Attorney Docket Number	36941/PAN/B600
Application Number	09/522,184
Filing Date	March 9, 2000
Applicant(s)	Henry Li et al.
Group Art Unit	<del>2743</del> 3628
Examiner Name	To Be Assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	DOCUMENT NUMBER Number - kind code <sup>2</sup> . (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
<i>gr</i>		4,285,060	08-18-1981	Cobb et al.
		5,329,587	07-12-1994	Morgan et al.
		5,388,127	02-07-1995	Scarpa
		5,454,015	09-26-1995	Olafsson
		5,598,468	01-28-1997	Ammicht et al.
		5,790,641	08-04-1998	Chan et al.
		5,852,630	12-22-1998	Langberg et al.
		5,859,671	01-12-1999	Kim
		6,125,177	09-26-2000	Whittaker
		6,233,226 B1	05-15-2001	Gringeri et al.
<i>gr</i>		6,259,677 B1	07-10-2001	Jain

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>6</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup> (✓)

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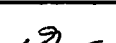
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## OTHER DOCUMENTS

EXAMINER INITIALS	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
		R. W. LUCKY, <i>QAM Receiver I. General Description of Complete Receiver Block Diagram and Details of the Symbol Clock Recovery and Other Front-End Subsystems</i> , Applications of Communications Theory, Chapter 13, pages 127-135, Bellcore	✓
		R. W. LUCKY, <i>QAM Receiver II. The Passband Adaptive Equalizer and Carrier Recovery System</i> , Applications of Communications Theory, Chapter 14, Pages 137-151, Bellcore	✓
		EDWARD A. LEE et al., <i>Adaptive Equalization</i> , Digital Communication, Chapter 9, pages 371-402	✓
		EDWARD A. LEE et al., <i>Timing Recovery</i> , Digital Communication, Chapter 15, Pages 560-582	✓
		WILLIAM WEBB et al., <i>Basic Equaliser Techniques</i> , Modern Quadrature Amplitude Modulation, Principles and Applications for Fixed and Wireless Communications, IEEE Press, New York, Chapter 7, Pages 197-211	✓
		MIKE GRAY, <i>FAX Technology Tutorial and Testing Issues</i> , Agilent Technologies, © 2000, pages 1-20	✓
		<i>FAX Over IP Opportunities and Options</i> , Natural MicroSystems, 7 sheets	✓
		MAN MOHAN SONDHI et al., <i>Silencing Echoes on the Telephone Network</i> , Proceedings of the IEEE, © August 1980, Vol. 68, No. 8, pages 948-963	✓
		JOHN G. PROAKIS, <i>Digital Signaling Over a Channel With Intersymbol Interference</i> , Digital Communications, ISBN 0-07-05097-1, © 1983, Pages 357-381, McGraw-Hill, Inc.	✓
		JOHN A.C. BINGHAM, <i>Timing Recovery</i> , The Theory and Practice of Modem Design, © 1988, Chapter 7, pages 189-236, John Wiley & Sons, Inc.	✓
		JOHN A.C. BINGHAM, <i>Linear Adaptive Equalizers</i> , The Theory and Practice of Modem Design, © 1988, Chapter 8, pages 237-252, John Wiley & Sons, Inc.	✓

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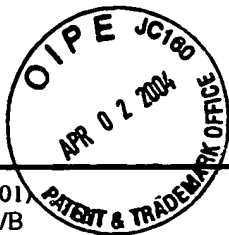
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<i>g</i>		DENNIS R. MORGAN et al., AT & T Bell Laboratories; <i>A Multi-Tone Pseudo-Cascade Filtered-X LMS Adaptive Notch Filter</i> , Proceeding of the IEEE International Conference in Acoustic Speech and Signal Processing, ICASSP 91, Vol. 3 D, May 1991, Toronto, Ontario, Canada, pages 2093-2096
		PANOS E. PAPAMICHALIS, Texas Instruments, Inc., <i>Practical Approaches to Speech Coding</i> , Prentice-Hall, Inc., Englewood Cliffs, New Jersey; 1992, pages 163-167 ✓
		JAMES THI et al., AT & T Bell Laboratories; <i>A Broadband Pseudo-Cascade Active Control System</i> , Proceeding of the IEEE International Conference in Acoustic Speech and Signal Processing; © 1992 IEEE; pp. II-233-II-236 ✓
		DENNIS R. MORGAN et al., AT & T Bell Laboratories, <i>A Multitone Pseudocascade Filtered-X LMS Adaptive Notch Filter</i> , IEEE Transactions on Signal Processing, Vol. 41, No. 2; © February 1993; pages 946-956 ✓
		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU; <i>Data Communication Over The Telephone Network, A Modem Operating At Data Signalling Rates Of Up To 28 800 bit/s For Use On The General Switched Telephone Network And On Leased Point-To-Point 2-Wire Telephone-Type Circuits</i> , ITU-T Recommendation V.34; © ITU 1994; 43 sheets ✓
		IEEE; IEEE Standards for Local and Metropolitan Area Networks: Supplement to Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications, "Media Access Control (MAC) Parameters, Physical Layer, Medium Attachment Units, and Repeater for 100 Mb/s Operation, Type 100BASE-T (Clauses 21-30); © 1995; 408 sheets ✓
		DENNIS R. MORGAN et al., <i>A Delayless Subband Adaptive Filter Architecture</i> , IEEE Transactions on Signal Processing; Vol. 43, No. 8; © August 1995, pages 1819-1830 ✓
<i>g</i>		EDWARD B. MORGAN, Fax Over Packet; Telogy Networks, Inc., Germantown, Maryland; © 1998; pages 1-12 ✓

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<i>2</i>		INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series G: Transmission Systems and Media, Digital Systems and Networks, <i>Automatic Level Control Devices</i> ; ITU-T Recommendation G.169; © ITU 1999; pages 1-52
<i>2</i>		ETSI EN 300 973, GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS, <i>Digital cellular telecommunications system (Phase 2+); Half rate speech; Voice Activity Detector (VAD) for half rate speech traffic channels</i> ; GSM 06.42 version 8.0.1 Release 1999); © 2000; pages 1-22

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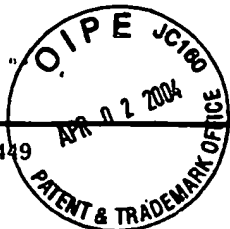
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## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JS</i>	5,119,322	06/1992	Stroobach	364	724.09	
	5,353,346	10/1994	Cox et al.	379	386	
	5,535,271	07/1996	Jangi et al.	379	351	
	5,694,517	12/1997	Sugino et al.	395	2.17	
	5,793,498	08/1998	Scholl et al.	358	434	
	5,818,929	10/1998	Yaguchi	379	418	
	5,970,441	10/1999	Mekuria	704	207	
	5,987,061	11/1999	Chen	375	222	
	6,028,679	02/2000	Murphy	358	407	
	6,023,470	02/2000	Lee et al.	370	401	
	6,141,341	10/2000	Jones et al.	370	352	
<i>JS</i>	6,151,636	11/2000	Schuster et al.	709	247	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>JS</i>	WO 97/26753	07/1997	WIPO				
<i>JS</i>	WO 97/28628	08/1997	WIPO				

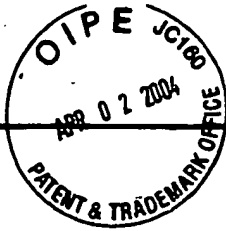
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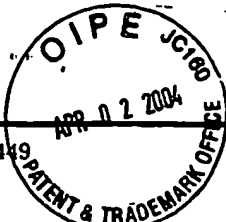
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	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Data Communication Over the Telephone Network, "300 Bits Per Second Duplex Modem Standardized For Use in The General Switched Telephone Network," ITU-T Recommendation, 1988, 1993, 7 pages, V. 21, ITU
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	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Data Communication Over the Telephone Network, "4800/2400 Bits Per Second Modem Standardized For Use in The General Switched Telephone Network," ITU-T Recommendation, 1988, 1993, 15 pages, V.27 ter, ITU
	INTERNATIONAL TELECOMMUNICATION UNION, CCITT The International Telegraph and Telephone Consultative Committee, Data Communication Over the Telephone Network, "Data Compression Procedures For Data Circuit Terminating Equipment (DCE) Using Error Correction Procedures," ITU-T Recommendation, 1990, 29 pages, V.42 bis, ITU

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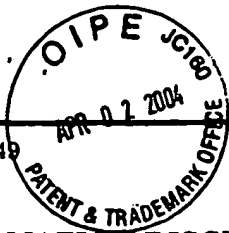
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<i>2</i>	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, SERIES T: TERMINAL EQUIPMENTS AND PROTOCOLS FOR TELEMATIC SERVICES, "Standardization of Group 3 Facsimile Terminals for Document Transmission," ITU-T Recommendation, 07/1996, 61 pages, T.4, ITU. ✓
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<i>1</i>	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Series V: Data Communication Over The Telephone Network, "A Modem Operating at Data Signalling Rates of up to 33 600 bit/s for Use on the General Switched Telephone Network and on Leased Point-to-Point 2-Wire Telephone-Type Circuits," 02/1998, 78 pages, V.34, ITU
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<i>2</i>	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Data Communication Over the Telephone Network, "1200 Bits per Second Duplex Modem Standardized For Use in the General Switched Telephone Network and on Point-to-Point 2-Wire Leased Telephone-Type Circuits,"

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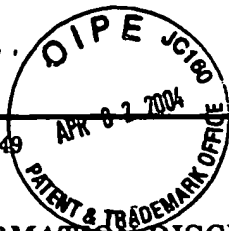
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/	ITU-T Recommendation(Extract from the Blue Book), 1988, 1993, 16 pages, V. 22, ITU ✓
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/	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, General Recommendations on Telephone Switching and Signalling, International Automatic and Semi-Automatic Working, "Multifrequency Push-button Signal Reception," ITU-T Recommendation, 1988, 1993, 7 pages, Q.24, ITU ✓
/	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, SERIES G: TRANSMISSION SYSTEMS AND MEDIA, Digital Transmission Systems - Terminal Equipments - Coding of Analogue Signals by Methods Other Than PCM, "Coding of Speech at 8 kbit/s Using Conjugate Structure Algebraic-code-excited Linear-prediction (SC-ACELP) Annex A: Reduced Complexity 8 kbit/s CS-ACELP Speech Codec," ITU-T Recommendation G.729 - Annex A, 11/1996, 15 pages, ITU ✓
/	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T, Telecommunication Standardization Sector of ITU, SERIES I: INTEGRATED SERVICES DIGITAL NETWORK, Overall Network Aspects and Functions - Protocol Layer Requirements, "B-ISDN ATM Adaptation Layer Specification: Type 2 AAL," ITU-T Recommendation, 09/1997, 47 pages, I.363.2, ITU ✓
2	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, SERIES I: INTEGRATED SERVICES DIGITAL NETWORK, Overall Network Aspects and Functions - Protocol Layer Requirements, "AAL Type 2 Service Specific Convergence Sublayer For Trunking," ITU-T Recommendation, 02/1999, 96 pages, I.366.2, ITU ✓

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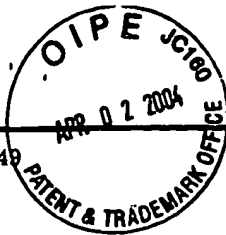
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<i>2</i>	INTERNATIONAL TELECOMMUNICATION UNION, CCITT The International Telegraph and Telephone Consultative Committee, General Aspects of Digital Transmission Systems; Terminal Equipments, "5-, 4-, 3- And 2-bits Sample Embedded Adaptive Differential Pulse Code Modulation (ADPCM)", 1990, 57 pages, G.727, ITU, Geneva

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FORM PTO-1449

## INFORMATION DISCLOSURE

## STATEMENT BY APPLICANT

(use as many sheets as necessary)

Attorney Docket Number	36941/CAG/B600
Application Number	09/522,184
Filing Date	March 9, 2000
Applicant(s)	Henry Li, et al.
Group Art Unit	<del>2745</del> 3628
Examiner Name	To be assigned

## OTHER DOCUMENTS

EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>RL</i>	INTERNATIONAL TELECOMMUNICATION UNION, CCITT The International Telegraph and Telephone Consultative Committee, General Aspects of Digital Transmission Systems; Terminal Equipments, "40, 32, 24, 16 kbit/s Adaptive Differential Pulse Code Modulation (ADPCM)," ITU-T Recommendation, 1990, 59 pages, G726, ITU, Geneva
<i>RL</i>	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, SERIES G: TRANSMISSION SYSTEMS AND MEDIA, Digital Transmission Systems - Terminal Equipments - Coding of Analogue Signals By Methods Other Than PCM, "Dual Rate Speech Coder for Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s, Annex A: Silence Compression Scheme," 11/1996, 22 pages, G.723.1, ITU
<i>RL</i>	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, General Aspects of Digital Transmission Systems, "Dual Rate Speech Coder For Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s," 03/1996, 31 pages, G.723.1, ITU
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<i>RL</i>	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, SERIES G: TRANSMISSION SYSTEMS AND MEDIA, DIGITAL SYSTEMS AND NETWORKS, International Telephone Connections and Circuits - Apparatus Associated With Long-Distance Telephone Circuits, "Digital Network Echo Cancellers," ITU-T Recommendation, 2000, 95 pages, G.168, Draft 5, ITU
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EXAMINER SIGNATURE	<i>[Signature]</i>	DATE CONSIDERED	9/6/05 Technology Center 2600
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<b>FORM PTO-1449</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	<b>Attorney Docket Number</b>	<b>36941/CAG/B600</b>
	<b>Application Number</b>	<b>09/522,184</b>
	<b>Filing Date</b>	<b>March 9, 2000</b>
	<b>Applicant(s)</b>	<b>Henry Li, et al.</b>
	<b>Group Art Unit</b>	<b>2743 3628</b>
	<b>Examiner Name</b>	<b>To be assigned</b>

<b>OTHER DOCUMENTS</b>	
<b>EXAMINER INITIALS</b>	<b>Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.</b>
<i>2</i>	INTERNATIONAL TELECOMMUNICATION UNION, ITU-T Telecommunication Standardization Sector of ITU, Transmission Systems and Media, Apparatus Associated With Long-Distance Telephone Circuits and Other Terminal Equipments, "Echo Suppressors," ITU-T Recommendation (Extract from the Blue Book), 1988, 1993, 36 pages, G.164, ITU <span style="float: right;">X</span>
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<i>1</i>	ETSI European Telecommunication Standard, "Digital Cellular Telecommunications System; Half Rate Speech; Voice Activity Detector (VAD) for Half Rate Speech Traffic Channels (GSM 06.42 version 5.0.1)," May 1997, 21 pages, ETS 300 973, European Telecommunications Standards Institute <span style="float: right;">X</span>
<i>1</i>	GARDNER WILLIAM, et al, "QCELP: A Variable Rate Speech Coder for CDMA Digital Cellular," Speech and Audio Coding for Wireless and Network Applications, 1993, Second Printing 1995, 9 pages, Kluwer Academic Publishers, Norwell, Massachusetts <span style="float: right;">X</span>
<i>1</i>	IMTC Voice over IP Forum Technical Committee, "IMTC Voice over IP Forum Service Interoperability Implementation Agreement 1.0," December 1, 1997, pages 1-44, VolP97-061 <span style="float: right;">X</span>
<i>1</i>	Internet Papers: PERKINS, C., KOUVELAS, I., HODSON, O., HARDMAN, V., HANDLEY, M., BOLOT, J.C., VEGA-GARCIA, A., FOSSE-PARISIS, S., INRIA, SOPHIA ANTIPOLIS; "RTP Payload for Redundant Audio Data,"; Network Working Group Request for Comments: 2198; <a href="http://www.cis.ohio-state.edu/cgi-bin/rfc/rfc2198.html">http://www.cis.ohio-state.edu/cgi-bin/rfc/rfc2198.html</a> ; September 1997; 9 pages <span style="float: right;">X</span>
<i>1</i>	Internet Papers: SCHULZRINNE, "RTP Profile for Audio and Video Conferences with Minimal Control," Internet Engineering Task Force, Internet Draft; <a href="http://hegel.ittc.ukans.edu/topics/internet/internet-drafts/draft-i/draft-ietf-avt-profile-new-C..">http://hegel.ittc.ukans.edu/topics/internet/internet-drafts/draft-i/draft-ietf-avt-profile-new-C..</a> ; November 20, 1997; 29 pages <span style="float: right;">X</span>
<i>2</i>	Internet Papers: SCHULZRINNE H.; "RTP Profile for Audio and Video Conferences with Minimal Control," Network Working Group Request for Comments: 1890; <a href="http://www.cis.ohio-state.edu/cgi-bin/rfc/rfc1890.html">http://www.cis.ohio-state.edu/cgi-bin/rfc/rfc1890.html</a> ; January 1996; 15 pages <span style="float: right;">X</span>

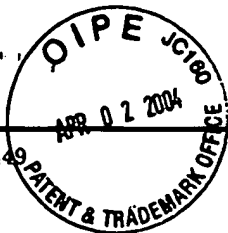
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<b>FORM PTO-1449</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	<b>Attorney Docket Number</b>	<b>36941/CAG/B600</b>
	<b>Application Number</b>	<b>09/522,184</b>
	<b>Filing Date</b>	<b>March 9, 2000</b>
	<b>Applicant(s)</b>	<b>Henry Li, et al.</b>
	<b>Group Art Unit</b>	<b>2743-3628</b>
	<b>Examiner Name</b>	<b>To be assigned</b>

<b>OTHER DOCUMENTS</b>	
<b>EXAMINER INITIALS</b>	<b>Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.</b>
<i>[Signature]</i>	Internet Papers: SCHULZRINNE, and PETRACK, "RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals," Network Working Group Request for Comments: 2833, May 2000, 31 pages
<i>[Signature]</i>	BELL COMMUNICATIONS RESEARCH, "Dual-Tone Multifrequency Receiver Generic Requirements for End-to-End Signaling Over Tandem-Switched Voice Links," March 1987, 11 pages, Technical Reference TR-TSY-000181 Issue 1, Bell Communications Research, Inc. (Bellcore)
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<i>[Signature]</i>	PAUL FISCHER, "State Machines In C," The C Users Journal, December 1990, pages 119-122

<b>EXAMINER SIGNATURE</b>	<i>[Signature]</i>	<b>DATE CONSIDERED</b>	<i>9/6/05</i>
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Christine Sherwood  
Signature

Applicant : Henry Li, et al.  
Application No. : 09/522,184  
Filed : March 9, 2000  
Title : VOICE AND DATA EXCHANGE OVER A PACKET BASED NETWORK  
Grp./Div. : ~~2748~~ 3629  
Examiner : To be Assigned  
Docket No. : 36941/PAN/B600

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ATTACHMENT TO  
INFORMATION DISCLOSURE STATEMENT  
OF U.S. PATENT APPLICATIONS TO BE CONSIDERED BY THE EXAMINER  
BUT NOT TO BE PRINTED ON THE PATENT

The following commonly owned, co-pending patent applications contain similar subject matter as the present application.

PENDING APPLICATIONS		
U.S. Serial No.	Filing Date	First Named Inventor(s)
09/639,527	August 16, 2000	Jordan James Nicol
09/493,458	January 28, 2000	Henry Li
09/643,920	August 23, 2000	Onur Tackin et al.
09/692,554	October 19, 2000	Wilf Le Blanc et al.
09/644,586	August 23, 2000	Henry Li
09/643,921	August 23, 2000	Wilf Le Blanc et al.
09/653,261	August 31, 2000	Onur Tackin et al.
09/654,376	September 1, 2000	Onur Tackin
09/533,022	March 22, 2000	Wilf Le Blanc et al.
09/697,777	October 26, 2000	Wilf Le Blanc et al.
09/651,006	August 29, 2000	Kenny C. Kwan
EXAMINER		DATE CONSIDERED
		9/6/05